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Relevance scale

1 Reuse in the application layer

Hirotomo Okuno, Hideki Matsumoto, Hironori Asai, Mikiko Sakurai, Takao Nakayama
November 1996 **Proceedings of the 1996 conference of the Centre for Advanced Studies on Collaborative research**
**Publisher:** IBM Press
Full text available: pdf(151.98 KB) Additional Information: full citation, abstract, references, index terms

Today's advanced CASE tools, combining the building-block and generative approaches to software reuse, are effective for reuse of software components and procedures in the presentation layer and data layer of the three-layer model. There are no effective tools generally available, however, for reuse of application-layer components and procedures, which are usually too numerous and small for efficient reuse. Programmers therefore choose to transform existing specification sheets of the applicatio ...

2 Hypermedia in the virtual project room - toward open 3D spatial hypermedia

Preben Mogensen, Kaj Grønbæk
May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**
**Publisher:** ACM Press
Full text available: pdf(741.98 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: 3D workspace, CSCW, collaborative virtual environments, open hypermedia, spatial hypermedia

3 What's NeXT for Apple?

Jef Raskin
May 1997 **interactions**, Volume 4 Issue 3
**Publisher:** ACM Press
Full text available: pdf(770.17 KB) Additional Information: full citation, references, index terms

4 SQL open heterogeneous data access

Berthold Reinwald, Hamid Pirahesh
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international**

**conference on Management of data SIGMOD '98**, Volume 27 Issue 2
**Publisher:** ACM Press
Full text available: pdf(275.23 KB) Additional Information: full citation, abstract, citings, index terms

We describe the open, extensible architecture of SQL for accessing data stored in external data sources not managed by the SQL engine. In this scenario, SQL engines act as middleware servers providing access to external data using SQL DML statements and joining external data with SQL tables in heterogeneous queries. We describe the state-of-the art in object-relational systems and their companion products, and provide an outlook on future directions.

5 Open distributed processing (panel)

Oscar Nierstrasz, Alan Snyder, Anthony S. Williams, William Cook
April 1993 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum) OOPSLA '93**, Volume 5 Issue 2
**Publisher:** ACM Press
Full text available: pdf(808.00 KB) Additional Information: full citation, index terms

6 The Lotus notes storage system

Kenneth Moore
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2
**Publisher:** ACM Press
Full text available: pdf(165.27 KB) Additional Information: full citation, abstract, references, citings, index terms

Lotus Notes is a commercial product that empowers individuals and organizations to collaborate and share information [1].Notes enables the easy development of applications such as messaging, document management, workflow, and asynchronous conferencing. Notes applications can be deployed globally, across independent organizations, among a heterogeneous network of loosely coupled computers that range in size from small notebooks to large multi-processor systems.The third major release of Lotus Not ...

7 Session 3: Objects and meta-objects: Matching data storage to application-needs

Dawson Dean, Richard Zippel
September 1994 **Proceedings of the 6th workshop on ACM SIGOPS European workshop: Matching operating systems to application needs**
**Publisher:** ACM Press
Full text available: pdf(576.75 KB) Additional Information: full citation, references

8 Designing the OpenDoc human interface

Dave Curbow, Elizabeth Dykstra-Erickson
August 1997 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**
**Publisher:** ACM Press
Full text available: pdf(1.30 MB) Additional Information: full citation, references, index terms

**Keywords**: OpenDoc, collaboration, design process, human interface specification, user-centered design

9 A workbench for predicting the performances of distributed object architectures
Sophie Dumas, George Gardarin
December 1998 **Proceedings of the 30th conference on Winter simulation**
**Publisher:** IEEE Computer Society Press
Full text available: pdf(88.30 KB) Additional Information: full citation, references, index terms

10 ESSQL: an enhanced semi-structured query language for composite document retrievals
Reo-Jo Yamashita, Tetsuro Ito, Hsiu-Hsen Yao
September 1998 **Proceedings of the 16th annual international conference on Computer documentation**
**Publisher:** ACM Press
Full text available: pdf(632.66 KB) Additional Information: full citation, references, index terms

11 A multiple presentation document management system
Augusto Celentano, Silvano Pozzi, Donato Toppeta
November 1992 **Proceedings of the 10th annual international conference on Systems documentation**
**Publisher:** ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

The paper proposes an approach to the definition of a document management system oriented to the support of cooperative activities based on multiple-presentation documents. In our view, multiple-presentation means that the informative content of a document can be presented to the reader by using different shapes, styles and levels of detail, according to the reader profile. The Zelig document management system is based on the definition of an only conceptua ...

12 The role of user studies in the design of OpenDoc
Elizabeth Dykstra-Erickson, Dave Curbow
August 1997 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**
**Publisher:** ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, references, index terms

**Keywords**: OpenDoc, component software, conceptual model, design, learnability, object technology, objects, usability

13 Teaching OLE automation: a problem-based learning approach
Raymond P. Kirsch
March 1996 **ACM SIGCSE Bulletin , Proceedings of the twenty-seventh SIGCSE technical symposium on Computer science education SIGCSE '96**, Volume 28 Issue 1
**Publisher:** ACM Press
Full text available: pdf(507.90 KB) Additional Information: full citation, references, citings, index terms

14 Toward active, extensible, networked documents: multivalent architecture and

applications
Thomas A. Phelps, Robert Wilensky
April 1996 **Proceedings of the first ACM international conference on Digital libraries**
**Publisher:** ACM Press
Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

15 Data access for the masses through OLE DB
José A. Blakeley
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2
**Publisher:** ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of OLE DB, a set of interfaces being developed at Microsoft whose goal is to enable applications to have uniform access to data stored in DBMS and non-DBMS information containers. Applications will be able to take advantage of the benefits of database technology without having to transfer data from its place of origin to a DBMS. Our approach consists of defining an open, extensible Collection of interfaces that factor and encapsulate orthogonal, reusable portions ...

16 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1
**Publisher:** ACM Press
Full text available: pdf(7.24 MB) Additional Information: full citation, citings

17 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
**Publisher:** ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

18 Ready. Fire!! Aim???
Jeffrey K. Holtzman
November 1993 **Proceedings of the 11th annual international conference on Systems documentation**
**Publisher:** ACM Press
Full text available: pdf(1.73 MB) Additional Information: full citation, references, citings, index terms

19 HotDoc: a framework for compound documents

Jürgen Buchner
March 2000 **ACM Computing Surveys (CSUR)**
**Publisher:** ACM Press
Full text available: pdf(186.46 KB) Additional Information: full citation, references, index terms

**Keywords**: compound documents, frameworks, multimedia, smalltalk

20 Microsoft universal data access platform

José A. Blakeley, Michael J. Pizzo
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2
**Publisher:** ACM Press
Full text available: pdf(289.83 KB) Additional Information: full citation, abstract, references, index terms

Microsoft Universal Data Access defines a platform for developing multi-tier enterprise applications that require efficient access to diverse relational or non-relational data sources across intranets or the Internet. Universal Data Access consists of a collection of software components that interact with each other using system-level interfaces defined by OLE DB and providing an application-level data access model called ActiveX Data Objects (ADO). This talk provides an overview of the pla ...

**Keywords**: ADO, ODABC, OLAP, OLE DB, component databases, data access and manipulation, database extensibility, spatial

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| S2 | 39 | ((word or document) and table$1 and spreadsheet$1).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2003/11/13 16:40 |
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| S20 | 29 | object with link$ with embed$ with spreadsheet | USPAT | OR | OFF | 2003/11/14 16:23 |
| S21 | 668 | object with linking with embedding | USPAT | OR | OFF | 2003/11/14 16:25 |
| S22 | 8 | (object with linking with embedding) same improve$ | USPAT | OR | OFF | 2003/11/14 16:24 |
| S23 | 13 | (object with linking with embedding).ti,ab. | USPAT | OR | OFF | 2003/11/14 16:30 |
| S24 | 52 | (object with linking with embedding) same spreadsheet$1 | USPAT | OR | OFF | 2003/11/14 16:33 |

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| S26 | 146 | spreadsheet$1 and word and (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2003/11/14 16:35 |
| S27 | 117 | spreadsheet$1 same word same (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2003/11/14 16:36 |
| S28 | 10 | spreadsheet$1 same word same (editor or document or processor or processor) same (add or integrat$ or insert or embed$) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2003/11/14 16:50 |
| S29 | 149 | opendoc | USPAT | OR | OFF | 2003/11/17 10:14 |
| S30 | 4 | opendoc.ti,ab. | USPAT | OR | OFF | 2003/11/17 10:14 |
| S31 | 10 | ("5339390" \| "5348659" \| "5408602" \| "5446842" \| "5537526" \| "5613124" \| "5651108" \| "5659676" \| "5664208" \| "5669005").PN. | USPAT | OR | OFF | 2003/11/17 10:17 |
| S32 | 11 | ("5079695" \| "5287447" \| "5349658" \| "5367633" \| "5392389" \| "5394521" \| "5428734" \| "5437008" \| "5459832" \| "5463726" \| "5467441").PN. | USPAT | OR | OFF | 2003/11/17 10:19 |
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| S34 | 68 | opendoc and spreadsheet | USPAT | OR | OFF | 2003/11/17 10:28 |
| S35 | 8 | opendoc same spreadsheet | USPAT | OR | OFF | 2003/11/17 10:28 |
| S36 | 13 | opendoc and spreadsheet and formula$1 and (table$1 same manage$) | USPAT | OR | OFF | 2003/11/17 10:31 |
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| S39 | 7 | ("4885714" \| "5189608" \| "5216627" \| "5224034" \| "5235701" \| "5263167" \| "5371675").PN. | USPAT | OR | OFF | 2003/11/17 10:33 |
| S40 | 5 | "5630126".URPN. | USPAT | OR | OFF | 2003/11/17 16:20 |
| S41 | 7 | ("4885714" \| "5189608" \| "5216627" \| "5224034" \| "5235701" \| "5263167" \| "5371675").PN. | USPAT | OR | OFF | 2003/11/17 16:23 |
| S42 | 5 | ("5752016" \| "5930795" \| "5946688" \| "6014730" \| "6067547").PN. | USPAT | OR | OFF | 2003/11/17 16:26 |
| S43 | 148 | spreadsheet same (html or sgml or xml or markup) | USPAT | OR | OFF | 2003/11/24 09:46 |

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| S44 | 2 | spreadsheet same (html or sgml or xml or markup) same $calculat$ | USPAT | OR | OFF | 2003/11/24 09:47 |
| S45 | 1 | spreadsheet same (html or sgml or xml or markup) same formula | USPAT | OR | OFF | 2003/11/24 09:47 |
| S46 | 19 | (compound with document) same (html or sgml or xml or markup) | USPAT | OR | OFF | 2003/11/24 10:05 |
| S47 | 37 | (compound with document) and spreadsheet and (html or sgml or xml or markup) | USPAT | OR | OFF | 2003/11/24 09:54 |
| S48 | 29 | (compound with document) and spreadsheet and (html or sgml or xml or markup) and ($calculat$ or formula) | USPAT | OR | OFF | 2003/11/24 09:54 |
| S49 | 1167 | nest$ with table$1 | USPAT | OR | OFF | 2003/11/24 14:51 |
| S50 | 22 | nest$ with table$1 with cell$1 | USPAT | OR | OFF | 2003/11/24 14:52 |
| S70 | 93 | spreadsheet with html with document | US-PGPUB; USPAT | OR | OFF | 2004/11/19 17:00 |
| S71 | 39 | spreadsheet with html with document with (table chart) | US-PGPUB; USPAT | OR | OFF | 2004/11/19 17:01 |
| S72 | 6 | ("5860073" \| "5991760" \| "6078924" \| "6182092" \| "6230173" \| "6396500").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/19 17:54 |
| S73 | 6 | ("5860073" \| "6078924" \| "6182092" \| "6230173" \| "6396500" \| "6456308").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/19 17:55 |
| S74 | 8 | ("5893127" \| "5903889" \| "6078924" \| "6247018" \| "6311196" \| "6336124" \| "6389437" \| "6397219").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/19 17:57 |
| S75 | 1 | (US-5630126-$).did. | USPAT | OR | OFF | 2004/11/19 18:29 |
| S78 | 27 | table with manage$ with spreadsheet | US-PGPUB; USPAT | OR | OFF | 2004/11/19 18:30 |
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| S83 | 262 | determin$ with content with type with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/06/12 16:57 |
| S84 | 26 | S83 and spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/06/12 16:55 |
| S85 | 36 | determin$ with content with type with (cell$1 field$1) with select$ | US-PGPUB; USPAT | OR | OFF | 2005/06/12 17:06 |

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| S86 | 4274 | determin$ with whether with (formula value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/06/12 17:06 |
| S87 | 17 | determin$ with whether with formula with (value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/06/12 17:07 |
| S88 | 83 | form$1 with (cell$1 field$1) with formula with (value$1 text) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/12 17:27 |
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| S92 | 1 | ("5669005").PN. | US-PGPUB; USPAT | OR | OFF | 2005/06/12 17:43 |
| S93 | 3 | ((word or document) and table$1 and spreadsheet$1).ti,ab. | USPAT | OR | OFF | 2005/06/30 17:54 |
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| S97 | 108 | integrat$ with spreadsheet with (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S98 | 11 | spreadsheet with document$1 with table$1 with function$ | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S99 | 168 | table$1 with ($calculate$ or formula or sorting) with document | USPAT | OR | OFF | 2005/06/30 17:54 |

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| S106 | 10 | (object with linking with embedding) same improve$ | USPAT | OR | OFF | 2005/06/30 17:54 |
| S107 | 16 | (object with linking with embedding).ti,ab. | USPAT | OR | OFF | 2005/06/30 17:54 |
| S108 | 56 | (object with linking with embedding) same spreadsheet$1 | USPAT | OR | OFF | 2005/06/30 17:54 |
| S109 | 192 | (object with linking with embedding) and spreadsheet$1 and improve$ | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S110 | 238 | spreadsheet$1 and word and (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S111 | 193 | spreadsheet$1 same word same (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S112 | 16 | spreadsheet$1 same word same (editor or document or processor or processor) same (add or integrat$ or insert or embed$) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S113 | 177 | opendoc | USPAT | OR | OFF | 2005/06/30 17:54 |
| S114 | 4 | opendoc.ti,ab. | USPAT | OR | OFF | 2005/06/30 17:54 |
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| S133 | 1316 | nest$ with table$1 | USPAT | OR | OFF | 2005/06/30 17:54 |
| S134 | 28 | nest$ with table$1 with cell$1 | USPAT | OR | OFF | 2005/06/30 17:54 |
| S135 | 115 | spreadsheet with html with document | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S136 | 49 | spreadsheet with html with document with (table chart) | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |

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| S140 | 1 | (US-5630126-$).did. | USPAT | OR | OFF | 2005/06/30 17:54 |
| S141 | 43 | table with manage$ with spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S142 | 11 | smart with selection with tool | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S143 | 0 | floating with field$1 with content with type with determin$ | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S144 | 11 | floating same field$1 same content same type same determin$ | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S145 | 2 | (("5995103") or ("6470349")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S146 | 262 | determin$ with content with type with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S147 | 26 | S146 and spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S148 | 36 | determin$ with content with type with (cell$1 field$1) with select$ | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S149 | 4329 | determin$ with whether with (formula value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S150 | 17 | determin$ with whether with formula with (value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S151 | 83 | form$1 with (cell$1 field$1) with formula with (value$1 text) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S152 | 5 | (determin$ with cell with content with spreadsheet).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S153 | 0 | (determin$ with cell with whether with formula with (value text)).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |

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|---|---|---|---|---|---|---|
| S154 | 6 | (determin$ with cell with whether with formula ).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/30 17:54 |
| S155 | 1 | ("5669005").PN. | US-PGPUB; USPAT | OR | OFF | 2005/06/30 17:54 |
| S156 | 100 | select$ with content with type with cell$1 | US-PGPUB; USPAT | OR | OFF | 2005/09/21 15:06 |
| S157 | 14039 | spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/09/21 15:06 |
| S158 | 24 | S157 and (assign$ with cell$1 with type) | US-PGPUB; USPAT | OR | OFF | 2005/09/21 15:16 |
| S159 | 36 | highlight$ same browser same type same content | US-PGPUB; USPAT | OR | OFF | 2005/09/21 15:29 |
| S160 | 3 | (specify$ with cell with type with (content value text)) and S157 | US-PGPUB; USPAT | OR | OFF | 2005/09/21 15:30 |
| S161 | 3 | ((word or document) and table$1 and spreadsheet$1).ti,ab. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S162 | 73 | ((word or document) and table$1 and spreadsheet$1).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S163 | 8 | integrat$ same spreadsheet same table$1 same (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S164 | 208 | integrat$ same spreadsheet same (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S165 | 115 | integrat$ with spreadsheet with (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S166 | 11 | spreadsheet with document$1 with table$1 with function$ | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S167 | 174 | table$1 with ($calculate$ or formula or sorting) with document | USPAT | OR | OFF | 2005/11/16 20:00 |
| S168 | 2 | table$1 with ($calculate$ or formula or sorting) with document with spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S169 | 5 | (table$1 with ($calculate$ or formula or sorting) with document) and spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S170 | 22 | (add or insert$ or embed$ or integrat$) same spreadsheet same table$1 same word same document | USPAT | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S171 | 1059 | object with link$ with embed$ | USPAT | OR | OFF | 2005/11/16 20:00 |
| S172 | 29 | object with link$ with embed$ with spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S173 | 836 | object with linking with embedding | USPAT | OR | OFF | 2005/11/16 20:00 |
| S174 | 11 | (object with linking with embedding) same improve$ | USPAT | OR | OFF | 2005/11/16 20:00 |
| S175 | 17 | (object with linking with embedding).ti,ab. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S176 | 57 | (object with linking with embedding) same spreadsheet$1 | USPAT | OR | OFF | 2005/11/16 20:00 |
| S177 | 199 | (object with linking with embedding) and spreadsheet$1 and improve$ | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S178 | 272 | spreadsheet$1 and word and (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S179 | 220 | spreadsheet$1 same word same (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S180 | 16 | spreadsheet$1 same word same (editor or document or processor or processor) same (add or integrat$ or insert or embed$) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S181 | 181 | opendoc | USPAT | OR | OFF | 2005/11/16 20:00 |
| S182 | 4 | opendoc.ti,ab. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S183 | 10 | ("5339390" \| "5348659" \| "5408602" \| "5446842" \| "5537526" \| "5613124" \| "5651108" \| "5659676" \| "5664208" \| "5669005").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S184 | 11 | ("5079695" \| "5287447" \| "5349658" \| "5367633" \| "5392389" \| "5394521" \| "5428734" \| "5437008" \| "5459832" \| "5463726" \| "5467441").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S185 | 4 | ("5339390" \| "5348659" \| "5408602" \| "5446842").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S186 | 75 | opendoc and spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S187 | 8 | opendoc same spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S188 | 14 | opendoc and spreadsheet and formula$1 and (table$1 same manage$) | USPAT | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S189 | 3 | opendoc and (spreadsheet same (formula$1 or recalculat$)) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S190 | 5 | "5630126".URPN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S191 | 7 | ("4885714" \| "5189608" \| "5216627" \| "5224034" \| "5235701" \| "5263167" \| "5371675").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S192 | 5 | "5630126".URPN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S193 | 7 | ("4885714" \| "5189608" \| "5216627" \| "5224034" \| "5235701" \| "5263167" \| "5371675").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S194 | 5 | ("5752016" \| "5930795" \| "5946688" \| "6014730" \| "6067547").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S195 | 242 | spreadsheet same (html or sgml or xml or markup) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S196 | 7 | spreadsheet same (html or sgml or xml or markup) same $calculat$ | USPAT | OR | OFF | 2005/11/16 20:00 |
| S197 | 6 | spreadsheet same (html or sgml or xml or markup) same formula | USPAT | OR | OFF | 2005/11/16 20:00 |
| S198 | 30 | (compound with document) same (html or sgml or xml or markup) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S199 | 47 | (compound with document) and spreadsheet and (html or sgml or xml or markup) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S200 | 34 | (compound with document) and spreadsheet and (html or sgml or xml or markup) and ($calculat$ or formula) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S201 | 1357 | nest$ with table$1 | USPAT | OR | OFF | 2005/11/16 20:00 |
| S202 | 28 | nest$ with table$1 with cell$1 | USPAT | OR | OFF | 2005/11/16 20:00 |
| S203 | 141 | spreadsheet with html with document | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S204 | 49 | spreadsheet with html with document with (table chart) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S205 | 6 | ("5860073" \| "5991760" \| "6078924" \| "6182092" \| "6230173" \| "6396500").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/16 20:00 |
| S206 | 6 | ("5860073" \| "6078924" \| "6182092" \| "6230173" \| "6396500" \| "6456308").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/16 20:00 |
| S207 | 8 | ("5893127" \| "5903889" \| "6078924" \| "6247018" \| "6311196" \| "6336124" \| "6389437" \| "6397219").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S208 | 1 | (US-5630126-$).did. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S209 | 45 | table with manage$ with spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S210 | 11 | smart with selection with tool | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S211 | 0 | floating with field$1 with content with type with determin$ | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S212 | 11 | floating same field$1 same content same type same determin$ | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S213 | 2 | (("5995103") or ("6470349")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S214 | 275 | determin$ with content with type with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S215 | 28 | S214 and spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S216 | 39 | determin$ with content with type with (cell$1 field$1) with select$ | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S217 | 4659 | determin$ with whether with (formula value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S218 | 17 | determin$ with whether with formula with (value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S219 | 85 | form$1 with (cell$1 field$1) with formula with (value$1 text) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S220 | 5 | (determin$ with cell with content with spreadsheet).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S221 | 0 | (determin$ with cell with whether with formula with (value text)).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S222 | 6 | (determin$ with cell with whether with formula ).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S223 | 1 | ("5669005").PN. | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S224 | 208 | integrat$ same spreadsheet same (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S225 | 174 | table$1 with ($calculate$ or formula or sorting) with document | USPAT | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S226 | 1059 | object with link$ with embed$ | USPAT | OR | OFF | 2005/11/16 20:00 |
| S227 | 836 | object with linking with embedding | USPAT | OR | OFF | 2005/11/16 20:00 |
| S228 | 199 | (object with linking with embedding) and spreadsheet$1 and improve$ | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S229 | 272 | spreadsheet$1 and word and (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S230 | 220 | spreadsheet$1 same word same (editor or document or processor or processor) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S231 | 181 | opendoc | USPAT | OR | OFF | 2005/11/16 20:00 |
| S232 | 75 | opendoc and spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S233 | 242 | spreadsheet same (html or sgml or xml or markup) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S234 | 47 | (compound with document) and spreadsheet and (html or sgml or xml or markup) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S235 | 1357 | nest$ with table$1 | USPAT | OR | OFF | 2005/11/16 20:00 |
| S236 | 141 | spreadsheet with html with document | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S237 | 0 | floating with field$1 with content with type with determin$ | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S238 | 275 | determin$ with content with type with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S239 | 4659 | determin$ with whether with (formula value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S240 | 0 | (determin$ with cell with whether with formula with (value text)).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S241 | 1 | (US-5630126-$).did. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S242 | 1 | ("5669005").PN. | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S243 | 3 | ((word or document) and table$1 and spreadsheet$1).ti,ab. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S244 | 73 | ((word or document) and table$1 and spreadsheet$1).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S245 | 8 | integrat$ same spreadsheet same table$1 same (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S246 | 11 | spreadsheet with document$1 with table$1 with function$ | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S247 | 2 | table$1 with ($calculate$ or formula or sorting) with document with spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S248 | 5 | (table$1 with ($calculate$ or formula or sorting) with document) and spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S249 | 22 | (add or insert$ or embed$ or integrat$) same spreadsheet same table$1 same word same document | USPAT | OR | OFF | 2005/11/16 20:00 |
| S250 | 29 | object with link$ with embed$ with spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S251 | 11 | (object with linking with embedding) same improve$ | USPAT | OR | OFF | 2005/11/16 20:00 |
| S252 | 17 | (object with linking with embedding).ti,ab. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S253 | 57 | (object with linking with embedding) same spreadsheet$1 | USPAT | OR | OFF | 2005/11/16 20:00 |
| S254 | 16 | spreadsheet$1 same word same (editor or document or processor or processor) same (add or integrat$ or insert or embed$) | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S255 | 4 | opendoc.ti,ab. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S256 | 10 | ("5339390" \| "5348659" \| "5408602" \| "5446842" \| "5537526" \| "5613124" \| "5651108" \| "5659676" \| "5664208" \| "5669005").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S257 | 11 | ("5079695" \| "5287447" \| "5349658" \| "5367633" \| "5392389" \| "5394521" \| "5428734" \| "5437008" \| "5459832" \| "5463726" \| "5467441").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S258 | 4 | ("5339390" \| "5348659" \| "5408602" \| "5446842").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S259 | 8 | opendoc same spreadsheet | USPAT | OR | OFF | 2005/11/16 20:00 |
| S260 | 14 | opendoc and spreadsheet and formula$1 and (table$1 same manage$) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S261 | 3 | opendoc and (spreadsheet same (formula$1 or recalculat$)) | USPAT | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S262 | 5 | "5630126".URPN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S263 | 7 | ("4885714" \| "5189608" \| "5216627" \| "5224034" \| "5235701" \| "5263167" \| "5371675").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S264 | 5 | "5630126".URPN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S265 | 7 | ("4885714" \| "5189608" \| "5216627" \| "5224034" \| "5235701" \| "5263167" \| "5371675").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S266 | 5 | ("5752016" \| "5930795" \| "5946688" \| "6014730" \| "6067547").PN. | USPAT | OR | OFF | 2005/11/16 20:00 |
| S267 | 7 | spreadsheet same (html or sgml or xml or markup) same $calculat$ | USPAT | OR | OFF | 2005/11/16 20:00 |
| S268 | 6 | spreadsheet same (html or sgml or xml or markup) same formula | USPAT | OR | OFF | 2005/11/16 20:00 |
| S269 | 30 | (compound with document) same (html or sgml or xml or markup) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S270 | 34 | (compound with document) and spreadsheet and (html or sgml or xml or markup) and ($calculat$ or formula) | USPAT | OR | OFF | 2005/11/16 20:00 |
| S271 | 28 | nest$ with table$1 with cell$1 | USPAT | OR | OFF | 2005/11/16 20:00 |
| S272 | 49 | spreadsheet with html with document with (table chart) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S273 | 6 | ("5860073" \| "5991760" \| "6078924" \| "6182092" \| "6230173" \| "6396500").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/16 20:00 |
| S274 | 6 | ("5860073" \| "6078924" \| "6182092" \| "6230173" \| "6396500" \| "6456308").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/16 20:00 |
| S275 | 8 | ("5893127" \| "5903889" \| "6078924" \| "6247018" \| "6311196" \| "6336124" \| "6389437" \| "6397219").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/16 20:00 |
| S276 | 45 | table with manage$ with spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S277 | 11 | smart with selection with tool | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S278 | 11 | floating same field$1 same content same type same determin$ | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S279 | 2 | (("5995103") or ("6470349")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S280 | 28 | S238 and spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |

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|---|---|---|---|---|---|---|
| S281 | 39 | determin$ with content with type with (cell$1 field$1) with select$ | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S282 | 17 | determin$ with whether with formula with (value text) with (cell$1 field$1) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S283 | 85 | form$1 with (cell$1 field$1) with formula with (value$1 text) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S284 | 5 | (determin$ with cell with content with spreadsheet).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S285 | 6 | (determin$ with cell with whether with formula ).ti,ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S286 | 115 | integrat$ with spreadsheet with (word with (processing or processor)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/16 20:00 |
| S287 | 102 | select$ with content with type with cell$1 | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S288 | 14585 | spreadsheet | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S289 | 24 | S288 and (assign$ with cell$1 with type) | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S290 | 37 | highlight$ same browser same type same content | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |
| S291 | 3 | (specify$ with cell with type with (content value text)) and S288 | US-PGPUB; USPAT | OR | OFF | 2005/11/16 20:00 |